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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,860	04/23/2007	Jan de Bont	294-258 PCT/US	3812
	7590 09/11/200 & <b>BARON,</b> LLP	EXAMINER		
6900 JERICHO	TURNPIKE		LILLING, HERBERT J	
SYOSSET, NY 11791			ART UNIT	PAPER NUMBER
			1657	
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			09/11/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/590,860	DE BONT ET AL.		
Office Action Summary	Examiner	Art Unit		
	HERBERT J. LILLING	1657		
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IT  Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perioder in the provision of Failure to reply within the set or extended period for reply will, by statue Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 28 2     This action is <b>FINAL</b> . 2b) ☑ The 3 ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4)  Claim(s) 1-11 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5)  Claim(s) is/are allowed. 6)  Claim(s) is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) 1-11 are subject to restriction and/or	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a constant may not request that any objection to the Replacement drawing sheet(s) including the correct of the correct of the constant of the correct of th	ccepted or b) objected to by the education of the learning of the drawing of the	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D: 5)  Notice of Informal F 6)  Other:	ate		

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1. Receipt is acknowledged of a preliminary amendment filed August 28, 2006 for this application which is a 371 of PCT/NL05/00147 filed 03/01/2005 which claims benefit to EPO 04075638.9 filed 03/01/2004.

- 2. Claims 1-11 are present in this application.
- 3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- A. Whereby the hydrocarbon is selected from the group consisting of:
  - i) 4-hydroxybenzoic acid,
  - ii) benzaldehyde,
  - iii) other-please specify,
  - iv) a mixture thereof any of above-please specify the compounds.
- B. Whereby the solvent impregnated carrier comprises one or more components selected from:
  - 1. polymeric carrier selected from:
    - a) polystyrene,
    - b) polypropylene or polyethylene,
    - c) polytetrafluoroethylene,
    - d) silicone,

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- e) (regenerated) cellulose,
- f) other-please specify,
- g) mixtures of above-please specify,
- h) copolymers of above-please specify
- i) crosslinked of any above-please specify,
- j) any combination of above-please specify.
- 2. Whereby the solvent impregnated carrier comprises an inorganic carrier selected from:
  - a) silica,
  - b) alumina,
  - c) aluminosilicates,
  - d) other-please specify.
  - e) any combination of above-please specify.
  - 3. Whereby the solvent impregnated carrier selected from:\
    - a) any carrier other than above 1 or 2-please specify,
    - b) any combination of above 1 (polymeric), 2 (inorganic) or 3(a)-

please specify-the components.

- C. Whereby the biocatalyst is selected from the group consisting of:
  - a) Pseudomonas putida,
  - b) Escherichia coli,
  - c) Sacharomyces cerevisiae,
  - d) Lactobacillus species,
  - e) Aspergillus niger,

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f) other-please specify,

g) any combination of above-please specify.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features because as disclosed the different species have mutually exclusive characteristics for each identified species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. This Examiner is notifying Applicant that there is a major problem with the claimed inventions with respect to the term "hydrocarbon" which scope in terms of the commonly define conventional definition is a compound that contains only hydrogen and carbon. Claim 1 will not be examined since there is absolutely no meaningful search for class of compound(s) and no partial search will be submitted until the term is clearly defined or eliminated from the claim. The specification indicates the production of:
  - "...hydrocarbons, such as 4-hydroxybenzoic acid and benzaldehyde, which process, at least in part, overcomes the above-mentioned disadvantages. Other examples of hydrocarbons that may be produced according to the present invention are catechols (e.g. 3-methylcatechol), benzylalcohol, cinnamic acid, as well as mixtures of these and other hydrocarbons."; which compounds are not hydrocarbons per se according to the conventional definition.

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The Markush grouping submitted would require a separate search and examination for each of the compounds which includes 4-hydroxybenzoic acid, benzaldehyde or any other catechols (generic), benzyalcohol or cinnamic acid.

In addition, in claim 3, the term "components" is vague and indefinite in scope as to the scope as to the structure of the final carrier with respect to copolymers. The term renders the claims indefinite since it is includes parts of compounds or units for the formation of copolymeric carriers.

Applicant is only required to respond to the election of species.

- 6. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HERBERT J. LILLING whose telephone number is 571-272-0918. The examiner can normally be reached on WORK AT HOME MAXIFLEX.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JON WEBER can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

H.J.Lilling: HJL (571) 272-0918 Art Unit <u>1657</u> Sept 09, 2008

> /HERBERT J LILLING/ Primary Examiner Art Unit 1657

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